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## Goolsky FS-GR3E

# Goolsky Flysky FS-GR3E AFHDS 2.4G 3CH Receiver User Manual

Model: FS-GR3E

## 1. PRODUCT OVERVIEW

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The Goolsky Flysky FS-GR3E is a compact and reliable 3-channel receiver designed for use with various Flysky AFHDS 2.4GHz transmitters, including models like FS-GT2, FS-GT2B, FS-GT3B, FS-GT3C, and FZ-IT4S. It is ideally suited for remote-controlled cars and boats, offering stable performance and easy integration.

- **Reliable Signal:** Features reliable, interference-free 2.4 GHz AFHDS signal operation.
- **Easy Binding:** Designed for easy and quick binding, ensuring a fast and stable connection.
- **3 Channels:** Provides 3 channels for comprehensive control.
- **Ultra-Light Design:** Weighs only 6.5g with dimensions of 37.6 x 22.3 x 13 mm.
- **Compatibility:** Compatible with a range of Flysky transmitters for RC cars and boats.



Image 1.1: The Goolsky Flysky FS-GR3E receiver, showing its compact size, antenna, and the bind plug connected to the BIND/CH3 port.

## 2. SETUP INSTRUCTIONS

### 2.1 Components

Ensure you have the following components before proceeding with setup:

- Goolsky Flysky FS-GR3E Receiver
- Compatible Flysky AFHDS 2.4GHz Transmitter (e.g., FS-GT2, FS-GT3B)
- Bind Plug (usually included with the receiver or transmitter)
- Power Source (4.5-6.5V DC, typically from an ESC or separate battery pack)
- Servos and/or Electronic Speed Controller (ESC)

### 2.2 Receiver Connections

Connect your servos, ESC, and power source to the appropriate channels on the receiver. Refer to the diagram below for port identification.



Image 2.1: Detailed view of the receiver's connection ports, including BIND/CH3, CH2, CH1, and VCC.

- **CH1:** Steering Servo (for cars/boats)
- **CH2:** Throttle/ESC (for cars/boats)
- **BIND/CH3:** Used for binding process and can function as a third channel after binding.
- **VCC:** Power input (connect your ESC or battery pack here).

## 2.3 Binding Procedure

The binding process establishes a secure communication link between your transmitter and receiver. Follow these steps:

1. Ensure your transmitter is turned **OFF**.
2. Insert the bind plug into the **BIND/CH3** port on the FS-GR3E receiver.
3. Connect the power source (ESC or battery) to the **VCC** port on the receiver. The receiver's LED should start flashing rapidly, indicating it is in binding mode.
4. Turn on your transmitter while holding down its **BIND** button (location varies by transmitter model).
5. The receiver's LED should stop flashing and remain solid, indicating a successful bind.
6. Release the BIND button on the transmitter, then turn off the transmitter.
7. Disconnect the power from the receiver and remove the bind plug.
8. Turn on your transmitter first, then power on the receiver. The receiver's LED should be solid, confirming

the connection.



Image 2.2: A typical bind plug used for initiating the binding process between the receiver and transmitter.

### 3. OPERATING INSTRUCTIONS

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Once the receiver is successfully bound to your transmitter, you can begin operating your RC model.

- Always turn on your transmitter **first**, then power on your RC model (receiver).
- After use, always turn off your RC model (receiver) **first**, then turn off your transmitter.
- Test all control surfaces (steering, throttle) before operating the model to ensure proper function and direction.
- The FS-GR3E receiver includes a Failsafe function. In case of signal loss, the receiver will revert to a pre-set throttle position (usually neutral or brake) to prevent runaway models. This setting is typically configured on your transmitter.
- Maintain a clear line of sight between the transmitter and receiver for optimal signal strength and range.

### 4. MAINTENANCE

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Proper maintenance ensures the longevity and reliable performance of your FS-GR3E receiver.

- **Cleaning:** Keep the receiver clean and free from dust, dirt, and moisture. Use a soft, dry brush or compressed air to remove debris. Avoid using liquid cleaners.
- **Moisture Protection:** While the receiver is designed for RC use, it is not waterproof. Protect it from water and excessive humidity. If used in a boat, ensure it is housed in a waterproof enclosure.
- **Antenna Placement:** Ensure the antenna is not cut, bent sharply, or obstructed by carbon fiber or metal parts. Proper antenna orientation is crucial for signal reception.
- **Cable Management:** Secure all connecting wires to prevent them from interfering with moving parts or becoming disconnected during operation.
- **Storage:** Store the receiver in a cool, dry place away from direct sunlight and extreme temperatures when not in use.

## 5. TROUBLESHOOTING

If you encounter issues with your FS-GR3E receiver, refer to the following troubleshooting guide:

Problem	Possible Cause	Solution
Receiver LED not lighting up	No power or incorrect power connection.	Check power source (ESC or battery) and ensure it's connected correctly to the VCC port. Verify voltage is within 4.5-6.5V DC.
Receiver LED flashing rapidly	Receiver is in binding mode but not yet bound, or has lost connection.	Perform the binding procedure again (Section 2.3). Ensure the transmitter is on and bound.
No control response after binding	Incorrect servo/ESC connections, transmitter not properly linked, or Failsafe activated.	Verify all connections to CH1, CH2, etc. are correct. Re-bind the receiver. Check transmitter settings.
Limited range or intermittent signal	Antenna obstruction, damage, or environmental interference.	Ensure the receiver antenna is properly positioned and not damaged. Avoid operating near large metal objects or strong electromagnetic interference.

## 6. SPECIFICATIONS

Feature	Detail
Model	FS-GR3E
Channels	3 Channels
Frequency	2.4GHz AFHDS
Voltage Range	4.5-6.5 V DC
Weight	6.5 g

Feature	Detail
Dimensions (L x W x H)	37.6 x 22.3 x 13 mm
Material	Plastic
Color	Black
Manufacturer	Goolsky
Country of Origin	China

## 7. WARRANTY INFORMATION

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This Goolsky product is covered by a standard manufacturer's warranty against defects in materials and workmanship. The warranty period typically begins from the date of purchase. Please retain your proof of purchase for any warranty claims.

The warranty does not cover damage caused by:

- Improper installation or use.
- Unauthorized modifications or repairs.
- Accidents, abuse, or neglect.
- Operating outside the specified voltage range.
- Exposure to water or extreme temperatures.

For specific warranty terms and conditions, refer to the documentation provided with your purchase or contact Goolsky customer support.

## 8. SUPPORT

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If you require further assistance or have questions not covered in this manual, please contact Goolsky customer support. When contacting support, please have your product model (FS-GR3E) and a detailed description of your issue ready.

For the most up-to-date support information, including contact details, please visit the official Goolsky website or the retailer from whom you purchased the product.